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**COMBINED DECLARATION AND POWER OF ATTORNEY**  
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)

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As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **IN-SITU OR EX-SITU PROFILE MONITORING OF PHASE OPENINGS ON**

**ALTERNATING PHASE SHIFTING MASKS BY SCATTEROMETRY**

the specification of which

- (a) ☒ is attached hereto.
- (b) \_\_\_ was filed on \_\_\_\_\_ as \_\_\_ Serial No. 0 / \_\_\_\_\_ or  
Express Mail No. \_\_\_\_\_, as Serial No. not yet known, and was amended on \_\_\_\_\_  
(if applicable).
- (c) \_\_\_ was described and claimed in PCT International Application No. \_\_\_\_\_  
filed  
on \_\_\_\_\_ and amended under PCT Article 19 on \_\_\_\_\_ (if any).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations §1.56(a).

**PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- (d) ☒ no such applications have been filed.
- (e) \_\_\_ such applications have been filed as follows.

**EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35, USC 119
_____	_____	_____	___ Yes ___ No
_____	_____	_____	___ Yes ___ No
_____	_____	_____	___ Yes ___ No

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

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## POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

Himanshu S. Amin, Reg. No. 40,894 and Gregory Turocy, Reg. No. 36, 952;

Elizabeth A. Apperley, Reg. No. 36,428; Richard J. Roddy, Reg. No. 27,688;

Bradley Botsch, Reg. No. 34,552; Paul S. Drake, Reg. No. 33,491;

Michael Caywood, Reg. No. 37,797; Daniel R. Collopy, Reg. No. 33,491;

Harry A. Wolin, Reg. No. 32,638; and Rajendra Jaipershad, Reg. No. 44,168.

The undersigned to this declaration and power of attorney hereby authorizes the U.S. attorney(s) named herein to accept and follow instructions from

Name(s) of authorized representative(s) \_\_\_\_\_  
Address \_\_\_\_\_

as to any actions to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney(s) and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorney(s) will be so notified by the undersigned.

## Send Correspondence To:

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Direct Telephone Calls To:  
(name and telephone number)

Himanshu S. Amin  
  
(216) 696-8730

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued therein.

Full name of sole or first inventor: Cyrus E. Tabery  
Inventor's signature: *Cyrus E. Tabery*  
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Full name of second or joint inventor: Khoi A. Phan  
Inventor's signature: *Khoi A. Phan*  
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CHECK FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH  
FORM A PART OF THIS DECLARATION

X Signature for third and subsequent joint inventors. Number of pages added 1.

Full name of third inventor: Bharath Rangarajan  
Inventor's signature: [Signature]  
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Full name of fourth inventor: Bhanwar Singh  
Inventor's signature: [Signature]  
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Full name of fifth inventor: Ramkumar Subramanian  
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☒ This Declaration ends with this page.

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